

# Assistive Camera Control

ECE-405

**SD1214 Members:**

Steven Goldade

Lance Larsen

David Pinewski

**Client:**

Mark Coppin

**ECE Advisor:**

Dr. Green

## Revised Budget and Timeline

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# Revised Budget and Timeline

## 5. Budget

### 5.1 Purchased Items

Item	Part No.	Vendor	Qty.	True Value/ Acquired Cost
Tilt System	SPT400	Servo City	1	\$219.98
Pan System	SPG5685A-BM	Servo City	1	\$129.98
High torque servo	HS-5685MH	Servo City	2	\$39.99
Servo Programmer	HP-21+	Servo City	1	\$49.99
<b>Total</b>				<b>\$479.93</b>

### 5.2 Items to be Purchased

Item	Part No.	Vendor	Qty.	True Value/ Acquired Cost
PIC Microcontroller	PIC18F4620	Digikey	1	\$8.12
USB to UART	FT230X	Digikey	1	\$5.00
voltage regulator/ power supply	010-004-01	Castle Creations	1	\$44.95
High torque servo	HS-5685MH	Servo City	1	\$39.99
PCB		4PCB	1	\$100
Various microcontroller components		Digikey		\$75
Pulley	10T-6MM-PL	Servo City	2	\$16.99
15" Belt	B375-150XL	Servo City	1	\$8.99
Hub Gear	MG64T-32P-250F-50B	Servo City	1	\$12.99
Drive gear	RSA32-HMG-32	Servo City	1	\$14.99
USB Programmer	010-0005-00	Castle Creations	1	\$25.00
<b>Total</b>				<b>\$369.01</b>

## Revised Budget and Timeline

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### 6. Timeline

Task	Weeks	Who
Finalize initial PCB layout	1	Steven, Lance
Finalize power supply design	2	Lance, David
Complete zoom system	1-8	Lance, David
Work on code	1-8	Steven
PCB population	3	Lance, David
Microcontroller Testing	4	Steven, Lance
Initial wheelchair mounting test	9	All
Software usability testing	9	Steven
Polish software	10-12	Steven
Final meetings with client	12	All
Final assembly	12-13	All
Final testing and tweaking	13-16	All
Delivery	16	All

# Revised Budget and Timeline

## 7. Gantt Chart

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Finalize initial PCB layout	LL, SG															
Finalize power supply design		LL, DP														
Complete zoom system	LL, DP	LL, DP	LL, DP	LL, DP	LL, DP	LL, DP	LL, DP	LL, DP								
Work on code	SG	SG	SG	SG	SG	SG	SG	SG								
PCB population			LL, DP													
Microcontroller Testing				LL, SG												
Initial wheelchair mounting test									All							
Software usability testing									SG							
Polish software										SG	SG	SG				
Final meetings with client												All				
Final assembly												All	All			
Demo														All		
Final testing and tweaking														All	All	All
Delivery																All